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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,741	03/23/2007	Toshitaka Funazukuri	0234-0515PUS1	8885
2292 BIRCH STEW	2292 7590 12/13/2007 BIRCH STEWART KOLASCH & BIRCH		EXAMINER	
PO BOX 747			BLAND, LAYLA D	
FALLS CHUR	CH, VA 22040-0747		ART UNIT	PAPER NUMBER
			1623	
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			NOTIFICATION DATE	DELIVERY MODE
			12/13/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

	Application No.	Applicant(s)				
	10/579,741	FUNAZUKURI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Layla Bland	1623				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA B6(a). In no event, however, may a reprict of the community of the c	ATION. Ily be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 18 M	ay 2006.					
——————————————————————————————————————						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-6 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-6</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Ex	aminer. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)		(DTO 442)				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Su Paper No(s).	mmary (PTO-413) /Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5/18/2006, 8/18/2006.		ormal Patent Application				

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DETAILED ACTION

This application is a national stage entry of International Application No. PCT/JP04/17638, filed November 19, 2004, which claims priority to Japanese Application No. 2003-393118, filed November 21, 2003. Claims 1-6 are pending in this application and are examined on the merits herein.

Priority

It is noted that the filing date of this national stage application, March 23, 2007, is more than 30 months from the priority date (November 21, 2003). Thus, this application is not afforded the filing date of the international application or the priority application.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 and 3-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1 and 4 recite the limitation "containing carbon dioxide being added by pressure application." The meaning of this phrase is unclear and, although the phrase is used in the specification, it is not defined. For the purposes of examination, it is interpreted that the reaction mixture should be under pressure and should contain carbon dioxide.

Claims 3 and 5 recite the limitation "the carbon dioxide content is a maximum limit amount to reach a saturated amount of a solubility in the hot water." The meaning of this phrase is unclear. The specification gives one example of conditions wherein this limitation would be met (page 7, last paragraph - page 8, first paragraph), but gives no guidance as to whether the limitation can be met by any other combinations of temperature pressure, and mole fraction of carbon dioxide.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Bergfeld et al. (US 5,543,511, August 6, 1996, PTO-1449 submitted May 18, 2006).

Bergfeld et al. teach a method of partially hydrolyzing semi-crystalline cellulose comprising combining the cellulose with water at 100°C to 200°C and adding to the reaction carbon dioxide at a gas pressure of 0.1 to 60 bar [claim 1]. The starting cellulose is prepared from northern spruce [column 4, lines 53-55].

Bergfeld et al. are silent on the formation of monosaccharides or oligosaccharides. However, the method taught by Bergfeld et al. is the same as the instantly claimed method; thus, monosaccharides and/or oligosaccharides must necessarily be formed by Bergfeld's method.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Layla Bland whose telephone number is (571) 272-9572. The examiner can normally be reached on M-R 8:00AM-5:00PM UST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shaojia Anna Jiang can be reached on (571) 272-0627. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Layla Bland Patent Examiner Art Unit 1623 November 30, 2007 Shaojia Anna Jiang

Supervisory Patent Examiner

Art Unit 1623

November 30, 2007